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#16 IDS

EXPRESS MAIL NO. EM555261358US

Patent
Attorney's Docket No. 07953.0004.999

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of	)	
	)	
Pamela A. CONTAG, et al.	)	Group Art Unit: Unassigned
	)	
Application No.: 08/844,336	)	Examiner: Unassigned
	)	
Filed: April 18, 1997	)	
	)	
For: BIODETECTORS TARGETED TO SPECIFIC LIGANDS	)	

INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Enclosed is an Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

[X] No additional fee for submission of an IDS is required.

[] The fee of $230.00 as set forth in 37 C.F.R. § 1.17(p) is also enclosed.

[] A certification under 37 C.F.R. § 1.97(e) is also enclosed.

[] A certification under 37 C.F.R. § 1.97(e), a petition requesting consideration of the information disclosure statement, and the petition fee of $130.00 as set forth in 37 C.F.R. § 1.17(i) are also enclosed.

[] Charge $_____ to Deposit Account No. 08-3038 for the fee due.

[] A check in the amount of $_____ is enclosed for the fee due.

Information Disclosure Statement Transmittal Letter
Application Serial No. 08/844,336
Attorney's Docket No. 07953.0004.999

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 08-3038. This paper is submitted in duplicate.

Respectfully submitted,

HOWREY & SIMON

By: Albert P. Halluin / J. David Smith
Albert P. Halluin
Registration No. 25,227
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1299 Pennsylvania Avenue, N.W., Box 34
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Date: October 8, 1997

EXPRESS MAIL NO. EM555261358US

Patent
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. §1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

U.S. PATENT DOCUMENTS

1. Wood, U.S. Patent No. 5,283,179 - issued February 1, 1994;
2. Clark, et al., U.S. Patent No. 5,622,868 - issued April 22, 1997;
3. Schramm, U.S. Patent No. 5,281,539 - issued January 25, 1994; and
4. Cozzette, et al., U.S. Patent No. 5,466,575 - issued November 14, 1995.

I, the undersigned, hereby certify that each item of information contained above on this information disclosure statement was cited in a communication from the International Seach Authority in a counterpart PCT application, which communication was received not more than three months prior to the filing of this statement.

OTHER DOCUMENTS

1. Askin, "Bacterial and Fungal Infections in the Neonate," *Journal Of Obstetric, Gynecologic, Neonatal Nurses*, 24:635-643 (1995);

2. Benaron, et al., "Optical Time-of-Flight and Absorbance Imaging of Biologic Media," *Science*, 259:1463-1466 (1993);

3. Benaron, et al., "Medical Optical Tomography: Functional Imaging and Monitoring," *Spie Optical Engineering Press*, pp. 3-9 (1993);

4. Benaron, et al., "Resolution of Near Infrared Time-of-flight Brain oxygenation Imaging," *Advances in Experimental Medicine and Biology*, 345:609-617 (1994);

5. Clark, et al., "Unsuspected Primary Human Immunodficiency Virus Type 1 Infection in Seronegative Emergency Department Patients," *The Journal of Infectious Diseases*, 170:194-197 (1994);

6. Guzzo, et al., "Characterization fo the Effects of Aluminum on Luciferase Biosensors for the Detection of Ecotoxicity," *Toxicology Letters*, 64/65:687-693 (1992);

7. Harlow, et al., "Antibodies. A Laboratory Manual," *Cold Spring Harbor Laboratory Press*, (1988);

8. Heitzer, et al., "Optical Biosensor for Environmental On-Line Monitoring of Naphthalene and Salicylate Bioavailability With an Immobilized Bioluminescent Catabolic Reporter Bacterium," *Applied and Environmental Microbiology*, 60(5):1487-1494 (1994);

9. Hickey, et al., "Luciferase In Vivo Expression Technology: Use of Recombinant Mycobacterial Reporter Strains to Evaluate Antimycobacterial Activity in Mice," *Antimicrobial Agents and Chemotherapy*, 40(2): 400-407 (1996);

10. Hooper, et al., "Low-Light Imaging Technology in the Life Sciences," *J. Biolumin Chemilumin*, 9:113-122 (1994);

11. Jassim, et al., "In *vivo* Bioluminescence: A Cellular Reporter for Reseach and Industry," *Journal of Bioluminescence and Chemiluminescence*, 5:115-122 (1990);

12. Kricka, "Chemiluminescent and Bioluminescent Techniques," *Clinical Chemistry*, 37(9):1472-1481 (1991);

13. Phadke, "Biosensors and Enzyme Immobilized Electrodes," *BioSystems*, 27:203-206 (1992);

14. Piatak, Jr., et al., "Determination of Plasma Viral Load in HIV-1 Infection by quantitative Competitive Polymerase Chain Reaction," *Aids Supplemental*, 7(3):S65-S71 (1993);

15. Selifonova, et al., "Bioluminescent Sensors for Detection of Bioavailable Hg(II) in the Environment," *Applied and Environmental Microbiology*, 59(9):3083-3090 (1993);

16. Tatsu, et al., "Homogeneous chemiluminescent Immunoassay Based on Complement-Mediated Hemolysis of Red Blood Cells," *Analytical Chemistry*, 62:2103-2106 (1990); and

17. von Bally, et al., "Optics in Biomedical Sciences: Proceedings of the International Conference (Berlin, New York: Springer-Verlag).

The reference for Karube and Nakanishi, *Curr. Opin. Biotechnol.* 5:54-59 (1994) will be submitted under separate cover.

The documents are being submitted within 3 months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later, therefore no fee or certification is required under 37 C.F.R. § 1.97(b).

To assist the Examiner, the listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialled copy of this form be returned to the undersigned.

Respectfully submitted,

HOWREY & SIMON

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Albert P. Halluin
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Date: October 8, 1997

INFORMATION DISCLOSURE CITATION PTO-1449	ATTORNEY'S DKT NO. 07953.0004.999	APPLICATION NO. 08/844,336
	APPLICANT Pamel A. Contag, et al.	
	FILING DATE April 18, 1997	GROUP Unassigned

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,283,179	2/1994	Wood	435	8	
	5,622,868	4/1997	Clarke, et al.	436	147	
	5,281,539	1/1994	Schramm	436	518	
	5,466,575	11/1995	Cozzette, et al.	435	6	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Askin, "Bacterial and Fungal Infections in the Neonate," *Journal Of Obstetric, Gynecologic, Neonatal Nurses*, 24:635-643 (1995)
	Benaron, et al., "Optical Time-of-Flight and Absorbance Imaging of Biologic Media," *Science*, 259:1463-1466 (1993)
	Benaron, et al., "Medical Optical Tomography: Functional Imaging and Monitoring," *Spie Optical Engineering Press*, pp. 3-9 (1993);
	Benaron, et al., "Resolution of Near Infrared Time-of-flight Brain oxygenation Imaging," *Advances in Experimental Medicine and Biology*, 345:609-617 (1994)
	Clark, et al., "Unsuspected Primary Human Immunodficiency Virus Type 1 Infection in Seronegative Emergency Department Patients," *The Journal of Infectious Diseases*, 170:194-197 (1994)
	Guzzo, et al., "Characterization fo the Effects of Aluminum on Luciferase Biosensors for the Detection of Ecotoxicity," *Toxicology Letters*, 64/65:687-693 (1992)
	Harlow, et al., "Antibodies. A Laboratory Manual," *Cold Spring Harbor Laboratory Press*, (1988)
	Heitzer, et al., "Optical Biosensor for Environmental On-Line Monitoring of Naphthalene and Salicylate Bioavailability With an Immobilized Bioluminescent Catabolic Reporter Bacterium," *Applied and Environmental Microbiology*, 60(5):1487-1494 (1994)
	Hickey, et al., "Luciferase In Vivo Expression Technology: Use of Recombinant Mycobacterial Reporter Strains to Evaluate Antimycobacterial Activity in Mice," *Antimicrobial Agents and Chemotherapy*, 40(2): 400-407 (1996)
	Hooper, et al., "Low-Light Imaging Technology in the Life Sciences," *J. Biolumin Chemilumin*, 9:113-122 (1994)
	Jassim, et al., "In *vivo* Bioluminescence: A Cellular Reporter for Reseach and Industry," *Journal of Bioluminescence and Chemiluminescence*, 5:115-122 (1990)
	Kricka, "Chemiluminescent and Bioluminescent Techniques," *Clinical Chemistry*, 37(9):1472-1481 (1991)
	Phadke, "Biosensors and Enzyme Immobilized Electrodes," *BioSystems*, 27:203-206 (1992)
	Piatak, Jr., et al., "Determination of Plasma Viral Load in HIV-1 Infection by quantitative Competitive Polymerase Chain Reaction," *Aids Supplemental*, 7(3):S65-S71 (1993)
	Selifonova, et al., "Bioluminescent Sensors for Detection of Bioavailable Hg(II) in the Environment," *Applied and Environmental Microbiology*, 59(9):3083-3090 (1993)
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	von Bally, et al., "Optics in Biomedical Sciences: Proceedings of the International Conference (Berlin, New York: Springer-Verlag

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.